

— UST inspection  
 — utility notification  
 — assessment of DCA, waste oil UST  
 — 8260 still needed for MW-3, but  
 80216 ok for MW-1 + MW-2.

Phase (check one)	Type (check one)
<input checked="" type="checkbox"/> Initial Site Investigation <input type="checkbox"/> Corrective Action Feasibility Investigation <input type="checkbox"/> Corrective Action Plan <input type="checkbox"/> Corrective Action Summary Report <input type="checkbox"/> Monitoring Report	<div>Mar 14 9:41 AM '00</div> <div>WASTE MANAGEMENT DIVISION</div> <input type="checkbox"/> Work Scope <input checked="" type="checkbox"/> Technical Report <input type="checkbox"/> PCF Reimbursement Request <input type="checkbox"/> General Correspondence

## INITIAL SITE INVESTIGATION REPORT

Handy's Texaco  
 South Winooski Avenue  
 Burlington, VT  
 VTDEC SITE # 94-1676

A Property Owned By:  
 Joe Handy  
 65 South Winooski Avenue  
 Burlington, Vermont 05401

Prepared by:  
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March 10, 2000

Cell Phone  
 249-2321

## EXECUTIVE SUMMARY

Handy's Texaco is located at 75 South Winooski Avenue in Burlington, Vermont. Contamination was encountered in the subsurface soils at the property in 1994 when the UST system piping was upgraded. Contamination was also encountered in 1998 when a 10,000 gallon diesel UST and a 500 gallon used oil UST were removed. Based on these findings, the State of Vermont Sites Management Section (SMS) requested that an initial site investigation be performed at the property to determine the magnitude and extent of contamination.

This investigation entailed the installation of three groundwater monitoring wells. Groundwater flow was calculated to be to the southwest at a gradient of 1.4%. A total of six groundwater samples were collected and delivered to Green Mountain Laboratories in Middlesex, Vermont. Both EPA Methods 8260 and 8100M were applied with MW-1 and MW-3 seeing elevated levels of VOCs in their groundwater samples. VOC concentrations were measured with a photoionization detector in the field. Elevated readings were recorded in both MW-1 and MW-3.

The results of this investigation indicate that elevated concentrations of hydrocarbon contamination exist in the groundwater below the site. However, as there are no water supply wells in the area, drinking water is not at risk from this contamination and active remediation is currently not warranted. Quarterly groundwater monitoring is recommended, and should begin in March or April, 2000.


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## 1.0 INTRODUCTION / SITE HISTORY

Handy's Texaco is located at 75 South Winooski Avenue in Burlington, Vermont. Contamination was encountered in the subsurface soils at the property in 1994 when the UST system piping was upgraded. Contamination was also encountered in 1998 when a 10,000 gallon diesel UST and a 500 gallon used oil UST were removed. Based on these findings, the State of Vermont Sites Management Section (SMS) requested that an initial site investigation be performed at the property to determine the magnitude and extent of contamination. This report outlines that investigation, which was performed in December 1999.

## 2.0 METHODOLOGY



On December 16, 1999 I installed three permanent groundwater monitoring wells at the property with Adams Engineering of Underhill, Vermont. MW-1 was located on the downgradient side of the existing UST pad. MW-2 was located directly south of MW-1 as part of a triangulation setup. MW-3 was located in what was estimated to be hydraulically downgradient of the former waste oil UST. According to the utilities who responded to DIGSAFE, numerous utility lines were present in the former UST area. We therefore located MW-3 in a location deemed safe by the utility companies. Each boring was advanced using Adam's vibratory rig with a 5 foot stainless steel coring device having a 2 3/8" inside diameter. The sampler was lined with a disposable polyethylene bag, advanced in 5 foot increments into the water table, and then brought up to ground surface where the soils were removed for examination. The soil core was broken into either 1 foot increments or soil type during logging, placed in a freezer bag, and after five minutes the headspace within the bag was screened with a photoionization detector (PID) for volatile organic compounds (VOCs). Soil Boring Logs are Attached to this report.

After each well was installed, they were developed with a peristaltic pump until the flow became non-turbid. A groundwater sample was then collected from each well and delivered to Green Mountain Laboratories in Middlesex, Vermont for EPA Method 8260 and 8100 (modified) analyses. The results are included in the attached pages, and they are tabulated in Table 2.

After installing, developing, and sampling each well, a site survey was performed to gather information in making a site map. Included in the survey were top of casing elevations of each well, as well as street and building corners. On December 20, 1999, I returned to the site to collect depth to water measurements in each well. Collecting these measurements a few days after installation allowed the groundwater in each well to equilibrate back to its normal level. These measurements were used in developing a groundwater contour map. Groundwater elevations are presented in Table 1, while groundwater contours are included on the site map of Figure 2.

### 3.0 RESULTS

MW-1, which was installed adjacent to the existing gasoline USTs and former diesel UST location, had concentrations of benzene, toluene, ethylbenzene, MTBE, and 1,2,4-trimethylbenzene well above the Vermont Groundwater Enforcement Standards (GWES). Xylenes were also detected at 7,700 parts per billion (ppb), which is below the GWES of 10,000 ppb. However, due to these high concentrations, the laboratory was required to raise the sample's practical quantitation limit (PQL). The PQL was in many cases higher than the GWES for some parameters. Soil samples collected from MW-1's boring indicated increasing VOC concentrations from about 6 parts per million (ppm) at roughly 8 feet below ground surface (bgs) to a high of nearly 100 ppm at the water table.

MW-2 was analyzed at normal PQL's, with MTBE detected at 13 ppb, which is below the GWES of 40 ppb. No other parameters were detected in this sample. VOC concentrations in soil samples collected from MW-2 were all less than 1 ppm.

Benzene (1,400 ppb), MTBE (5,200 ppb), 1,2,4-trimethylbenzene (26 ppb), 1,2-dichloroethane (180 ppb), and Naphthalene (110 ppb) were all detected above the GWES in MW-3, which was the well located closest to the former waste oil UST. VOC concentrations in MW-3's soil samples ranged from 9 ppm at around 2 to 4 feet bgs, to a high of 320 ppm at the water table. \*

A sample from each well was also submitted for laboratory analyses using EPA Method 8100M for Total Petroleum Hydrocarbons (TPH). TPH was not detected above the PQL in any of the samples.

Based on depth to groundwater measurements collected on December 20, 2000 groundwater flow was to the southwest with an estimated gradient of 1.4%.

The site and all adjacent properties are serviced by city water and sewer. There are numerous utilities running along South Winooski Avenue and Bank Street. The utilities buried below Bank Street, being downgradient of the site, would be susceptible to contaminant migration. There are no basements in the immediate vicinity.

### 4.0 CONCLUSIONS / RECOMMENDATIONS

Elevated concentrations of VOC's are present in the soil and groundwater at MW-1 and MW-3. The compounds detected in MW-1 are reflective of gasoline and/or diesel. MW-3 also has gasoline constituents present. However, 1,2-dichloroethane, which is found more often in solvents, was also detected. This may indicate contamination from the former waste oil UST. The groundwater flow direction was to the southwest on December 20, 2000, suggesting that contamination from the waste oil site may not migrate towards MW-3. However, historical fluctuations in groundwater levels and flow directions presumably have occurred, and MW-3 may have been directly downgradient of the waste oil UST. Further monitoring of groundwater quality and elevations will shed more light on this.

MW-2 was essentially clean except for 13 ppb of MTBE in the groundwater. Its location appears to be out of the direct groundwater flow path from MW-1. Groundwater quality will be closely monitored in this well during any potential fluctuations of groundwater flow direction in the future.

Based on the results of this investigation, including groundwater and soil quality as well as the lack of water supply wells, it appears that active remediation of the site is currently not warranted. However, the current levels of groundwater contamination indicate a need for continued groundwater monitoring. Quarterly monitoring will provide ample groundwater quality data that will provide comparisons over seasonal groundwater level fluctuations. Based on the laboratory analyses discussed above, further Method 8260 and TPH analyses are no longer necessary. EPA Method 8021B should be adequate to monitor the existing groundwater contamination at the site.

The proposed quarterly sampling should begin in either April or March 2000 and continue into December 2000. Trends in groundwater elevations and quality will be established and discussed in a written report after each sampling event.

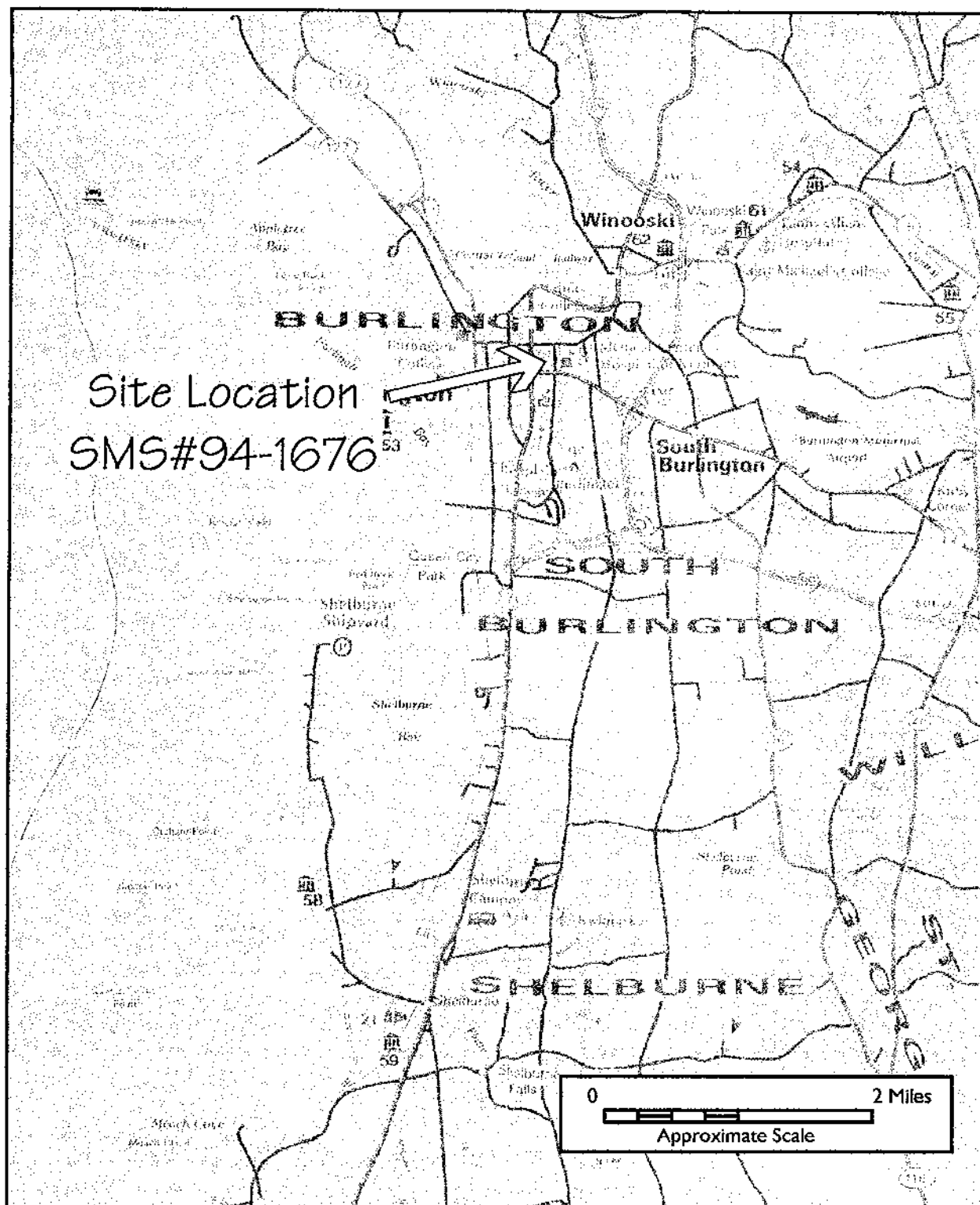
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Submitted March 10, 2000



Jeff Kelley  
Consulting Geologist

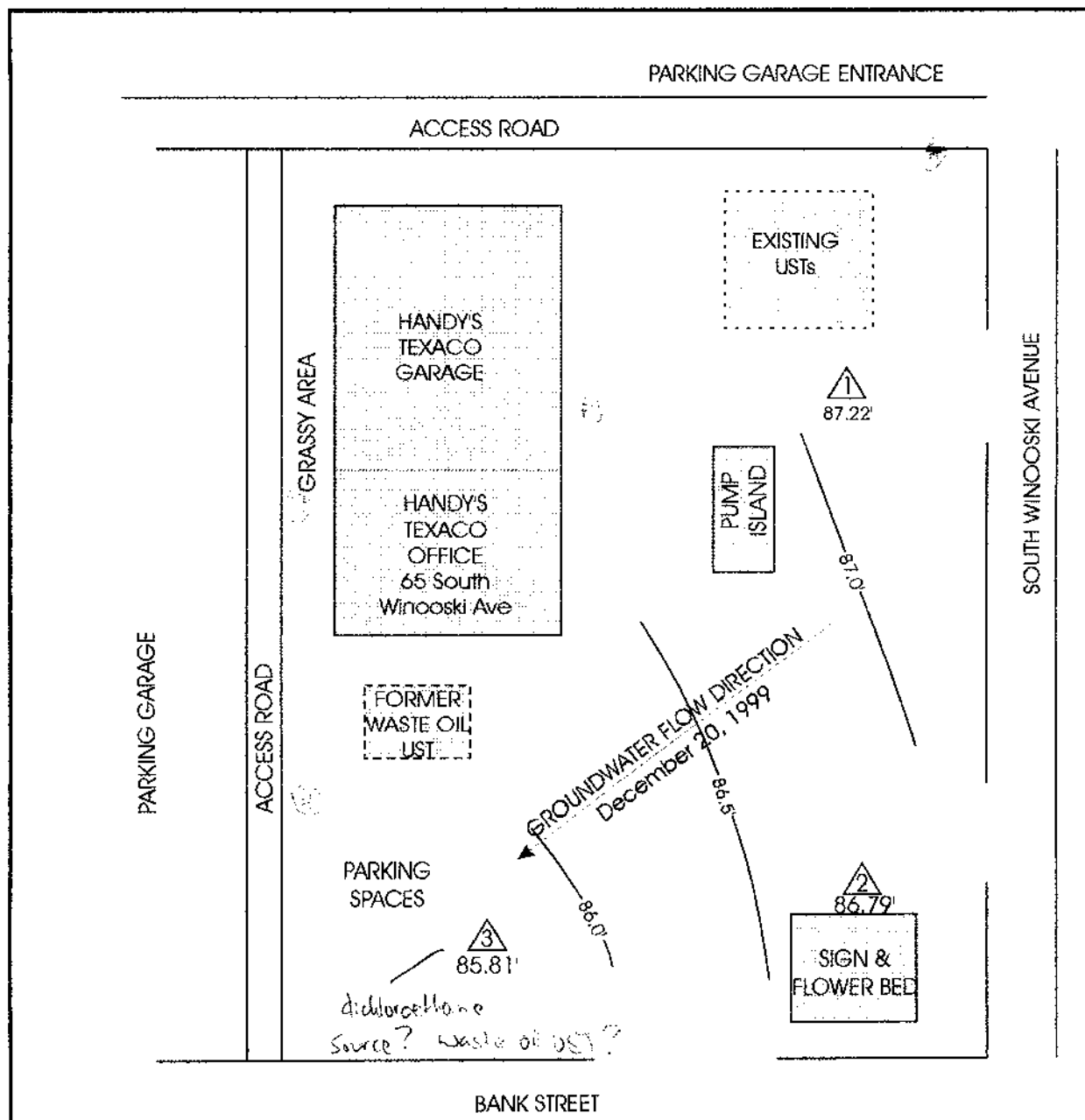
D:\consulting\tanks\handy\texaco\drilling\_report.wpd  
March 10, 2000



source: The VT Atlas and Gazetteer by DeLorme

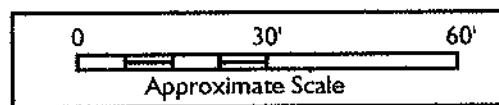
Location Map  
Handy's Texaco  
65 South Winooski Avenue  
Burlington, Vermont

Jeff Kelley, Consulting Geologist



LEGEND:

MW with groundwater elevation  
85.81'



source: Jeff Kelley Field Notes, 12/99

Site Map  
Handy's Texaco  
65 South Winooski Avenue  
Burlington, Vermont

Jeff Kelley, Consulting Geologist



TOC ELEVATIONS / GROUNDWATER ELEVATIONS  
Handy's Texaco, Burlington, VT  
DEC Site #94-1676

LOCATION	MW-1	MW-2	MW-3
TOC ELEVATION	100.00	98.33	98.59
December 20, 1999			
MEASURED DTW (ft below TOC)	12.78	11.54	12.78
GROUNDWATER ELEVATION	87.22	86.79	85.81

NOTES: -TOC = top of casing in feet  
-all elevations in feet above an assumed datum  
-TOC elevations collected on December 20, 1999 by Jeff Kelley

# LABORATORY RESULTS

Handy's Texaco, South Winooski Avenue  
Burlington, VT

	MW-1	MW-2	MW-3	UGES
PARAMETER	December 16, 1999	December 16, 1999	December 16, 1999	
benzene	8800	ND	1400	5
toluene	18000	ND	170	1000
ethylbenzene	1800	ND	130	700
1,3,5-trimethylbenzene	ND	ND	ND	4
1,2,4-trimethylbenzene	1000	ND	26	5
xylenes	7700	ND	196	10000
naphthalene	ND	ND	110	20
MTBE	10000	13	5200	40
1,2-Dichloroethane	ND	ND	180	

NOTES: all results in parts per billion (ppb)

MW-1

Soil Boring Log, December 16, 2000

Handy's Texaco, Burlington, VT

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<u>Boring</u>	<u>Interval</u>	<u>Recovery</u>	<u>PID Screening</u>	
MW-1	0-5'	3.5' Recovery		
Description		0 - 1.5' no recovery		
		1.5 - 2.8' loamy sand, dark brown, moist	1.5-2.8'	0.3 ppm
		2.8 - 5.0' silty fine sand, grayish brown, moist	2.8-5.0'	0.9 ppm
MW-1	5-10'	3.0' recovery		
Description		5.0-7.0' no recovery		
		7.0-10.0' silty fine sand, grayish brown, moist,	7-8'	1.7 ppm
			8-9'	6.2 ppm
			9-10'	12.6 ppm
MW-1	10-15'	4.0' recovery		
Description		10.0-11.0' no recovery		
		11.0-15.0' silty fine sand, brownish gray, moist	11-12'	20.4 ppm
			12-13'	48.4 ppm
			13-14'	62.0 ppm
			14-15'	60.0 ppm
MW-1	15-20'	5.0' Recovery		
Description		15.0-20.0 silty fine sand, wet throughout, light gray	15-16'	66.0 ppm
			16-17'	98.0 ppm
			17-18'	88.0 ppm
			18-19'	96.0 ppm
			19-20'	99.0 ppm
MW-1	Bottom set at 19.5' bgs			
	Screen:	9.5-19.5' bgs		
	Sand:	5.0-19.5' bgs		
	Bentonite:	2.0-5.0' bgs		

# MW-2

Soil Boring Log, December 16, 2000

Handy's Texaco, Burlington, VT

Boring	Interval	Recovery	PID Screening	
MW-2	0-5'	4.0' recovery		
Description		0-1.0' no recovery		
		1.0-2.6' medium sand fill, brown, moist	1.0-2.6'	0.8 ppm
		2.6-5.0' silty fine sand, mottled, grayish brown moist	2.6-3.6'	0.6 ppm
			3.6-5.0'	0.7 ppm
MW-2	5-10'	5.0' recovery		
Description		5.0-10.0' silty fine sand, mottled, grayish brown moist	5-6'	0.7 ppm
			6-7'	0.3 ppm
			7-8'	0.5 ppm
			8-9'	0.4 ppm
			9-10'	0.6 ppm
MW-2	10-15'	5.0' Recovery		
Description		10.0-12.0' silty fine sand, mottled, grayish brown, moist	10-11'	0.3 ppm
			11-12'	0.5 ppm
		12.0-13.2' fine sand, brownish gray, moist	12-13.2'	0.5 ppm
		13.2-15.0' silt, gray, wet around 14'	13.2-14'	0.6 ppm
			14-15'	0.4 ppm
MW-2	15-20'	5.0' Recovery		
Description		15.0-19.5' silt, gray, wet	15-16'	0.2 ppm
			16-17'	0.3 ppm
			17-18'	0.2 ppm
			18-19.5'	0.3 ppm
		19.5-20.0' fine sand, mottled, brownish gray, wet	19.5-20'	0.5 ppm
MW-2	Bottom set at 17.0' bgs			
	Screen:	7.0-17.0' bgs		
	Sand:	4.5-17.0' bgs		
	Bentonite:	2.0-4.5' bgs		

# MW-3

Soil Boring Log, December 16, 2000

Handy's Texaco, Burlington, VT

Boring	Interval	Recovery	PID Screening	
MW-3	0-5'	4.3' recovery		
Description		0-0.7'	no recovery	
		0.7-1.6'	0.7-1.6'	17.9 ppm
		1.6-2.2'	1.6-2.2'	17.7 ppm
		2.2-4.0'	2.2-4'	9.1 ppm
		4.0-4.5'	4-4.5'	29.8 ppm
		4.5-5.0'	4.5-5'	28.7 ppm
MW-3	5-10'	5.0' recovery		
Description		5.0-8.4'	5-6'	71 ppm
			6-7'	34 ppm
			7-8.4'	309 ppm
		8.4-10.0'	8.4-10'	108 ppm
MW-3	10-15'	5.0' Recovery		
Description		10.0-14.0'	10-11'	217 ppm
			11-12'	77 ppm
			12-13'	98 ppm
			13-14'	150 ppm
		14.0-15.0'	14-15'	230 ppm
MW-3	15-20'	5.0' Recovery		
Description		15.0-17.0'	15-16'	320 ppm
			16-17'	270 ppm
		17.0-19.5'	17-18'	285 ppm
			18-19.5'	92 ppm
		19.5-20.0'	19.5-20'	52 ppm
MW-3	Bottom set at 19.5' bgs			
	Screen:	9.5-19.5' bgs		
	Sand:	5.0-19.5' bgs		
	Bentonite:	2.0-5.0' bgs		

# Green Mountain Laboratories, Inc.

27 Cross Road  
Middlesex, Vermont 05602

Phone (802) 223-1468

Fax (802) 223-8688

## LABORATORY RESULTS

CLIENT NAME:	Jeff Kelley	GML REFERENCE #:	6220
CLIENT ADDRESS:	P.O. Box 9	PROJECT NO.:	NA
	Roxbury, VT 05669	DATE OF SAMPLE:	12/16/99
PROJECT NAME:	Handy's Texaco	DATE OF RECEIPT:	12/16/99
SAMPLER:	Jeff Kelley	DATE OF ANALYSIS:	12/23/99
ATTENTION:	Jeff Kelley	DATE OF REPORT:	02/21/00

### Total Petroleum Hydrocarbons (TPH) by EPA Method 8100M (mg/L - ppm)

Sample	PQL	TPH Results
MW-1	2.0	<2.0
MW-2	1.0	<1.0
MW-3	1.0	<1.0

PQL= Practical Quantitation Limit  
BPQL= Below Practical Quantitation Limit

Reviewed by:



Sarah Hallock  
Quality Assurance Officer

# GREEN MOUNTAIN LABORATORIES, INC.

27 Cross Road

Middlesex, Vermont 05602

Phone (802) 223-1468

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## LABORATORY RESULTS

CLIENT NAME:	Jeff Kelley	REFERENCE NO.:	6220
ADDRESS:	P.O. Box 9	PROJECT NO.:	NA
	Roxbury, VT 05669	DATE OF SAMPLE:	12/16/99
SAMPLE LOCATION:	Handy's Texaco	DATE OF RECEIPT:	12/16/99
SAMPLER:	Jeff Kelley	DATE OF ANALYSIS:	12/28/99 - 12/29/99
ATTENTION:	Jeff Kelley	DATE OF REPORT:	02/21/00

Pertaining to the analyses of specimens submitted under the accompanying chain of custody form, please note the following:

- Water samples submitted for VOC analysis were preserved with HCl.
- Specimens were processed and examined according to the procedures outlined in the specified method.
- Holding times were honored.
- Instruments were appropriately tuned and calibrations were checked with the frequencies required in the specified method.
- In the initial calibration Vinyl chloride exceeded fifteen percent relative standard deviation (RSD). However, the average percent RSD of all target analyte was 4.7%.
- Blank contamination was not observed at levels interfering with the analytical results.
- Continuing Calibration standards were monitored at intervals indicated in the specified method. The compounds Methyl-tert-butyl ether, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, and 1,2,3-Trichlorobenzene exceeded twenty percent deviation (D) from the initial calibration for the standard acquired during the December 28, 1999 analytical window. However, the average percent D of all target analytes from the initial calibration was 11%.
- The compounds 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene, and 1,2,3-Trichlorobenzene exceeded twenty percent D from the initial calibration for the standard acquired during the December 29, 1999 analytical window. However, the average percent D of all target analytes from the initial calibration was 6.0%.

- The efficiency of analyte recovery for individual samples was monitored by the addition of surrogate analytes to all samples, standards, and blanks. Surrogate recoveries were found to be within laboratory QA/QC acceptance limits, unless noted otherwise.

Reviewed by:

A handwritten signature in black ink, appearing to read 'Sarah Hallock', written over the printed name.

Sarah Hallock

Quality Assurance Officer



# Green Mountain Laboratories, Inc

27 Cross Road

Middlesex, Vermont 05602

Phone: (802) 223-1428

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## LABORATORY RESULTS

GML REF.#: 6220  
STATION: MW-1  
ANALYSIS DATE: 12/28/99 & 12/29/99  
DATE SAMPLED: 12/16/99  
SAMPLE TYPE: WATER

### EPA METHOD 8260B

PARAMETER	PQL	µg/L	PARAMETER	PQL	µg/L
Benzene	400	8800	Cis-1,3-Dichloropropene	400	ND
Bromobenzene	400	ND	Ethylbenzene	400	1800
Bromochloromethane	1000	ND	Hexachlorobutadiene	1000	ND
Bromodichloromethane	400	ND	Isopropylbenzene	400	ND
Bromoform	1000	ND	p-Isopropyltoluene	400	ND
Bromomethane	1000	ND	Methylene Chloride	1000	ND
n-Butylbenzene	400	ND	Methyl-t-butyl ether (MTBE)	1000	10000 *
sec-Butylbenzene	400	ND	Naphthalene	1000	ND
tert-Butylbenzene	400	ND	n-Propylbenzene	400	ND
Carbon tetrachloride	400	ND	Styrene	400	ND
Chlorobenzene	400	ND	1,1,1,2-Tetrachloroethane	400	ND
Chloroethane	400	ND	1,1,2,2-Tetrachloroethane	1000	ND
Chloroform	1000	ND	Tetrachloroethylene	400	ND
Chloromethane	1000	ND	Toluene	400	18000
o-Chlorotoluene	400	ND	1,2,3-Trichlorobenzene	1000	ND
p-Chlorotoluene	400	ND	1,2,4-Trichlorobenzene	1000	ND
1,2-Dibromo-3-chloropropane	1000	ND	1,1,1-Trichloroethane	1000	ND
Dibromochloromethane	400	ND	1,1,2-Trichloroethane	400	ND
1,2-Dibromoethane (EDB)	400	ND	Trichloroethylene (TCE)	400	ND
Dibromomethane	400	ND	Trichlorofluoromethane	1000	ND
o-Dichlorobenzene	400	ND	1,2,4-Trimethylbenzene	400	1000
m-Dichlorobenzene	400	ND	1,3,5-Trimethylbenzene	400	ND
p-Dichlorobenzene	400	ND	Vinyl Chloride	1000	ND
Dichlorodifluoromethane	1000	ND	o-Xylene	400	2600
1,1-Dichloroethane	1000	ND	m+p-Xylene	800	5100
1,2-Dichloroethane	400	ND			
1,1-Dichloroethylene	1000	ND			
cis-1,2-Dichloroethylene	1000	ND	Surrogates:		
trans-1,2-Dichloroethylene	1000	ND	Dibromofluoromethane	107 %	
1,2-Dichloropropane	400	ND	Toluene-D8	108 %	
1,3-Dichloropropane	400	ND	4-Bromofluorobenzene	103 %	
2,2-Dichloropropane	1000	ND			
1,1-Dichloropropene	1000	ND			
trans-1,3-Dichloropropene	400	ND			

ND = Not Detected

BPQL = Below Practical Quantitation Limit

\* Secondary analysis of the sample was required to bring the concentration of this analyte within the calibrated range.

# Green Mountain Laboratories, Inc

27 Cross Road

Middlesex, Vermont 05602

Phone: (802) 223-1428

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## LABORATORY RESULTS

GML REF.#: 6220  
STATION: MW-2  
ANALYSIS DATE: 12/28/99  
DATE SAMPLED: 12/16/99  
SAMPLE TYPE: WATER

### EPA METHOD 8260B

PARAMETER	PQL	µg/L	PARAMETER	PQL	µg/L
Benzene	2	ND	Cis-1,3-Dichloropropene	2	ND
Bromobenzene	2	ND	Ethylbenzene	2	ND
Bromochloromethane	5	ND	Hexachlorobutadiene	5	ND
Bromodichloromethane	2	ND	Isopropylbenzene	2	ND
Bromoform	5	ND	p-Isopropyltoluene	2	ND
Bromomethane	5	ND	Methylene Chloride	5	ND
n-Butylbenzene	2	ND	Methyl-t-butyl ether (MTBE)	5	13
sec-Butylbenzene	2	ND	Naphthalene	5	ND
tert-Butylbenzene	2	ND	n-Propylbenzene	2	ND
Carbon tetrachloride	2	ND	Styrene	2	ND
Chlorobenzene	2	ND	1,1,1,2-Tetrachloroethane	2	ND
Chloroethane	2	ND	1,1,2,2-Tetrachloroethane	5	ND
Chloroform	5	ND	Tetrachloroethylene	2	ND
Chloromethane	5	ND	Toluene	2	ND
o-Chlorotoluene	2	ND	1,2,3-Trichlorobenzene	5	ND
p-Chlorotoluene	2	ND	1,2,4-Trichlorobenzene	5	ND
1,2-Dibromo-3-chloropropane	5	ND	1,1,1-Trichloroethane	5	ND
Dibromochloromethane	2	ND	1,1,2-Trichloroethane	2	ND
1,2-Dibromoethane (EDB)	2	ND	Trichloroethylene (TCE)	2	ND
Dibromomethane	2	ND	Trichlorofluoromethane	5	ND
o-Dichlorobenzene	2	ND	1,2,4-Trimethylbenzene	2	ND
m-Dichlorobenzene	2	ND	1,3,5-Trimethylbenzene	2	ND
p-Dichlorobenzene	2	ND	Vinyl Chloride	5	ND
Dichlorodifluoromethane	5	ND	o-Xylene	2	ND
1,1-Dichloroethane	5	ND	m+p-Xylene	4	ND
1,2-Dichloroethane	2	ND			
1,1-Dichloroethylene	5	ND			
cis-1,2-Dichloroethylene	5	ND	Surrogates:		
trans-1,2-Dichloroethylene	5	ND	Dibromofluoromethane *	119 %	
1,2-Dichloropropane	2	ND	Toluene-D8 *	128 %	
1,3-Dichloropropane	2	ND	4-Bromofluorobenzene	113 %	
2,2-Dichloropropane	5	ND			
1,1-Dichloropropene	5	ND			
trans-1,3-Dichloropropene	2	ND			

ND = Not Detected

BPQL = Below Practical Quantitation Limit

\* Surrogate recovery exceeded laboratory acceptance limits.

# Green Mountain Laboratories, Inc

27 Cross Road  
Middlesex, Vermont 05602

Phone: (802) 223-1428

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## LABORATORY RESULTS

GML REF.#: 6220  
STATION: MW-3  
ANALYSIS DATE: 12/28/99  
DATE SAMPLED: 12/16/99  
SAMPLE TYPE: WATER

### EPA METHOD 8260B

PARAMETER	PQL	µg/L	PARAMETER	PQL	µg/L
Benzene	10	1400 *	Cis-1,3-Dichloropropene	10	ND
Bromobenzene	10	ND	Ethylbenzene	10	130
Bromochloromethane	25	ND	Hexachlorobutadiene	25	ND
Bromodichloromethane	10	ND	Isopropylbenzene	10	25
Bromoform	25	ND	p-Isopropyltoluene	10	ND
Bromomethane	25	ND	Methylene Chloride	25	ND
n-Butylbenzene	10	ND	Methyl-t-butyl ether (MTBE)	25	5200 *
sec-Butylbenzene	10	ND	Naphthalene	25	110
tert-Butylbenzene	10	ND	n-Propylbenzene	10	ND
Carbon tetrachloride	10	ND	Styrene	10	ND
Chlorobenzene	10	ND	1,1,1,2-Tetrachloroethane	10	ND
Chloroethane	10	ND	1,1,2,2-Tetrachloroethane	25	ND
Chloroform	25	ND	Tetrachloroethylene	10	ND
Chloromethane	25	ND	Toluene	10	170
o-Chlorotoluene	10	ND	1,2,3-Trichlorobenzene	25	ND
p-Chlorotoluene	10	ND	1,2,4-Trichlorobenzene	25	ND
1,2-Dibromo-3-chloropropane	25	ND	1,1,1-Trichloroethane	25	ND
Dibromochloromethane	10	ND	1,1,2-Trichloroethane	10	ND
1,2-Dibromoethane (EDB)	10	ND	Trichloroethylene (TCE)	10	ND
Dibromomethane	10	ND	Trichlorofluoromethane	25	ND
o-Dichlorobenzene	10	ND	1,2,4-Trimethylbenzene	10	26
m-Dichlorobenzene	10	ND	1,3,5-Trimethylbenzene	10	ND
p-Dichlorobenzene	10	ND	Vinyl Chloride	25	ND
Dichlorodifluoromethane	25	ND	o-Xylene	10	56
1,1-Dichloroethane	25	ND	m+p-Xylene	20	140
1,2-Dichloroethane	10	180			
1,1-Dichloroethylene	25	ND			
cis-1,2-Dichloroethylene	25	ND			
trans-1,2-Dichloroethylene	25	ND			
1,2-Dichloropropane	10	ND			
1,3-Dichloropropane	10	ND			
2,2-Dichloropropane	25	ND			
1,1-Dichloropropene	25	ND			
trans-1,3-Dichloropropene	10	ND			

#### Surrogates:

Dibromofluoromethane 110 %  
Toluene-D8 109 %  
4-Bromofluorobenzene 107 %

ND = Not Detected

BPQL = Below Practical Quantitation Limit

\* Concentration of this analyte exceeded the linear calibration range. Value is estimated.

